FUJITSU

DATASHEET

LIFEBOOK E8420

The expert without compromises

Issue: December 2009

LIFEBOOK E8420

The simple philosophy behind LIFEBOOK E8420: only the best is good enough. It is the ideal choice for performance-oriented office-based users: use state-of-the-art technology and work becomes a pleasure. 39.1 cm (15.4-inch) WSXGA+ display and an optional NVIDIA graphics card ensure a brilliant display screen and best performance.

More than enough performance

Maximum productivity even for the most demanding of applications thanks to state-of-the-art technology.

- Intel® Centrino® 2 with vPro™ technology, optional high-performance NVIDIA graphics card

Ideal substitute for a desktop

Effective working even for the most demanding of users in all situations.

- 39.1cm (15.4-inch) WSXGA+ display, modular bay, optional second 320GB hard disk drive

Maximum connectivity

Be available wherever you are; wireless connectivity anytime anywhere, even if there is no hotspot nearby.

- Optional integrated 3G/UMTS, WLAN and Bluetooth

Maximum security

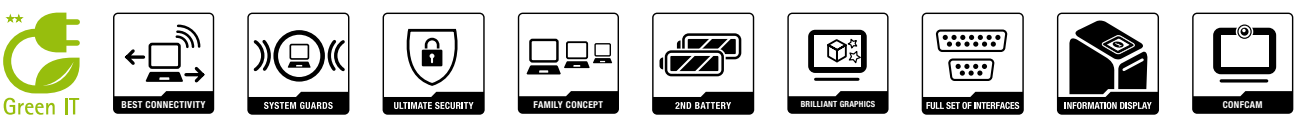
Protect your company data against unauthorized third-party access.

- Benefit from our end-to-end anti-theft concept with system and user protection, such as Computrace® enabled BIOS and Advanced Theft Proetection, optional fingerprint sensor, TPM module and SmartCase Logon+

Great flexibility

The family concept offers standard accessory components for the LIFEBOOK Series.

- Standardized port replicator, power supply unit and modular bay for optical drive, second battery or second hard disk drive



Components

Processor	Intel® Core™2 Duo processor T9600 (2.8 GHz, 6 MB, 1066 MHz)
	Intel® Core™2 Duo processor P8800 (2.66 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo processor P8700 (2.53 GHz, 3 MB, 1066 MHz)
Memory modules	2 GB (1 module(s) 2 GB) DDR3, 1066 MHz, PC3-8500, SO DIMM
	1 GB (1 module(s) 1 GB) DDR3, 1066 MHz, PC3-8500, SO DIMM
Hard disk drives (internal)	320 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T.
	320 GB, 5400 rpm, FDE, 2.5-inch S.M.A.R.T.
	160 GB, 7200 rpm, SATA, 2.5-inch S.M.A.R.T.
	160 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T.
	128 GB SSD SATA, 2.5-inch S.M.A.R.T.
Hard disk notes	ShockSensor for HDD shock protection One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software
Display	39.1 cm (15.4-inch) TFT 1680 x 1050 pixel (WSXGA+) non-glare display
	39.1 cm (15.4-inch) TFT 1280 x 800 pixel (WXGA) non-glare display (Intel® graphics)
WLAN (optional)	Atheros Minicard b/g 802.11 b/g
	Intel® Wireless WiFi Link 5300 AGN 11/13ch
UMTS/HSUPA (optional)	Sierra Wireless MC8790 (downlink 7.2 MBit/s, uplink 2.0 MBit/s)
Bluetooth (optional)	Bluetooth 2.1
Modular bay options	2nd battery
	2nd hard disk drive
	DVD Super Multi
	Weight saver

Base unit	**LIFEBOOK E8420 Intel gfx**	**LIFEBOOK E8420 NVIDIA gfx**
General system information		
Chipset	Intel® GM45, ICH 9-ME	Intel® PM45, ICH 9-ME
BIOS features	BIOS based on Phoenix SecureCore	BIOS based on Phoenix SecureCore
Memory slots	2 DIMM (DDR3)	2 DIMM (DDR3)
Turbo memory	Optional 4 GB	Optional 4 GB
Supported capacity RAM (min.)	1 GB	1 GB
Supported capacity RAM (max.)	4 GB	4 GB
Memory notes	8 GB - with future memory modules.	8 GB - with future memory modules.
Interfaces		
Memory card slots	1 (SD/MS/MSPro)	1
ExpressCard slots	1	1
PC Card slot (Type I/II)	1	1
SmartCard slot	1	1
SIM card slot	1	1
Modem (RJ-11)	1 (optional)	1 (optional)
USB 2.0 total	4	4
FireWire (IEEE1394)	1	1
Serial (RS-232)	1	1
Parallel	1	1
VGA	1	1
HDMI	1	1
Ethernet (RJ-45)	1	1
DC-in	1	1
Audio: line-in / microphone	1	1
Audio: line-out / headphone	1	1
Internal microphones	2	2
Docking connector for Port Replicator	1	1

Interfaces		
Kensington Lock support	2	2
Wired communication		
Modem type	Optional: 56 K V.92 modem MDC1.5	Optional: 56 K V.92 modem MDC1.5
LAN	10/100/1000 MBit/s Intel® 82567 LM	Built-in 10/100/1000 MBit/s Intel® 82567 LM
Wireless technologies		
Antennas	3 Dual band WLAN antennas, 2 UMTS antenna	3 Dual band WLAN antennas, 2 UMTS antenna
Infrared link (Fast IrDa 1.1, 4 Mbps)	1	1
WLAN notes	Import and usage according to country-specific regulations.	Import and usage according to country-specific regulations.
Keyboard and pointing devices		
	Spillproof keyboard	Spillproof keyboard
	Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm	Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm
	TouchStick Touchpad with two mouse buttons and one scroll button Second set of mouse buttons EcoButton LockWorkstation button MobilityCenter button Optional: Fingerprint sensor	TouchStick Touchpad with two mouse buttons and one scroll button Second set of mouse buttons EcoButton LockWorkstation button MobilityCenter button Fingerprint sensor
Multimedia		
Audio type	On board	On board
Audio codec	Realtek ALC269	Realtek ALC269
Audio features	Stereo speakers, 2 internal microphones	Stereo speakers, 2 internal microphones
Camera	Optional: Built-in webcam, 1.3 megapixel, VGA camera	Optional: Built-in webcam, 1.3 megapixel, VGA camera
Graphics		
Max. resolution external display	1920 x 1200 / true color / 60 Hz	1920 x 1200 pixel
Graphics brand name	Intel® GMA 4500	NVIDIA® GeForce® 9300M GS
Graphics features	DualView (Windows XP & Windows Vista)	DualView (Windows XP & Windows Vista)
Power supply		
AC adapter	19 V / 80 W (4.22 A)	19 V / 100 W (5.27 A)
Rated voltage range	100 - 240 V (AC Input)	100 - 240 V (AC Input)
Rated frequency range	50 - 60 Hz	50 - 60 Hz
1st battery	Li-Ion battery 8-cell, 5200 mAh, 75 Wh	Li-Ion battery 8-cell, 5200 mAh, 75 Wh
2nd battery (optional)	Li-Ion, 3800 mAh, 41 Wh	Li-Ion, 3800 mAh, 41 Wh
Battery features	Dynamic charge supported (rapid charge)	Dynamic charge supported (rapid charge)
Benchmark	Mobile Mark 2005	Mobile Mark 2005
Runtime 1st battery	up to 7 h	up to 5 h
Runtime 1st + 2nd battery	up to 11 h	up to 7:45 h
Battery notes	Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage.	Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage.
Power consumption		
Power consumption note	see white paper Energy Consumption	
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=ba456383-5387-4df1-ac75-f6baf24a6e03	
Dimensions / Weight / Environmental		
Dimension (W x D x H)	357 x 260 x 36 mm	357 x 260 x 36 mm
Weight	2.7 kg	2.7 kg
Weight notes	Actual weight may vary depending on configuration	Actual weight may vary depending on configuration
Operating ambient temperature	5 - 35°C	5 - 35°C

Dimensions / Weight / Environmental		
Operating relative humidity	20 - 85 % (running)	20 - 85 % (running)
Operating system		
Operating system optional preinstalled	Microsoft® Windows® 7 Professional 32-bit Microsoft® Windows Vista® Business 32-bit Microsoft® Windows Vista® Home Basic 32-bit TwinLoad Microsoft® Windows® XP Professional (DVD)	Microsoft® Windows® 7 Professional 32-bit Microsoft® Windows Vista® Business 32-bit Microsoft® Windows Vista® Home Basic 32-bit TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Microsoft® Windows® XP Professional	Microsoft® Windows® XP Professional
Operating system notes	Driver support for Microsoft® Windows® XP	Driver support for Microsoft® Windows® XP
Additional Software		
Additional software (preinstalled)	Adobe Acrobat Reader Application Panel Display Manager ShockSensor Utility Power Saving Utility Wireless Selector Utility EasyGuide online user documentation Nero Essentials S (burning software) Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP Toshiba Stack 4.x (not available for Windows® 7 operating systems)	Adobe Acrobat Reader Application Panel Display Manager ShockSensor Utility Power Saving Utility Wireless Selector Utility EasyGuide online user documentation Nero Essentials S (burning software) Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP Toshiba Stack 4.x (not available for Windows® 7 operating systems)
Additional software (optional)	Windows Vista® recovery media Drivers & Utilities DVD (DUDVD) UMTS connection manager (optional with UMTS) SmartCase Logon+	Windows Vista® recovery media Drivers & Utilities DVD (DUDVD) UMTS connection manager (optional with UMTS) SmartCase Logon+
Manageability		
Manageability features	DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional)	DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional)
Manageability type	DeskView 10.x client management including:	DeskView 10.x client management including:
DeskView features	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
Supported standards	WMI PXE BootP (made4you)	WMI PXE BootP (made4you)
Manageability link	http://ts.fujitsu.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html	http://ts.fujitsu.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html
Security		
Physical security	Kensington Lock support	Kensington Lock support
System security	Advanced Theft Protection Computrace® enabled BIOS Optional: Trusted platform module (TPM 1.2) Symantec Norton Internet Security (90 day test version)	Advanced Theft Protection Computrace® enabled BIOS Optional: Trusted platform module (TPM 1.2) Symantec Norton Internet Security (90 day test version)
User security	Integrated Fingerprint Sensor Integrated SmartCard controller in PC Card with system lock support Separate SmartCard slot Hard disk password SystemLock BIOS SmartCard security User and supervisor BIOS password	Optional: Integrated Fingerprint Sensor Integrated SmartCard controller in PC Card with system lock support Separate SmartCard slot Hard disk password SystemLock BIOS SmartCard security User and supervisor BIOS password

Compliance	
Europe	CE CE!
USA/Canada	FCC Class B (depending on wireless configuration) CSA cUL UL
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) WiFi certified ENERGY STAR® 5.0 EPEAT® Silver
Compliance link	https://sp.ts.fujitsu.com/sites/certificates/default.aspx

Portreplicator interfaces (optional)	
DC-in	1
Power on switch	1
Headphones	1
Audio: microphone in	1
USB 2.0 total	4
VGA	1
DVI	1 (with HDCP Support)
Serial (RS-232)	1
Mouse / Keyboard (PS/2)	1
Ethernet (RJ-45)	1
Parallel	1
Kensington Lock support	2

Warranty	
Standard Warranty	2 years
Service level	Collect & Return Service / Bring-In Service (depending on country)

Maintenance and Support Services - the perfect extension	
Recommended Service	3 years, On-site Service
Spare Parts availability	5 years
Service Weblink	htttp://ts.fujitsu.com/Supportservice

Information about environmental care, policies, programs and our Environmental Guideline FSC 03230:
http://ts.fujitsu.com/aboutus
Take back and Recycling information:
http://ts.fujitsu.com/recycling

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